Amendments to the Claims:

- 1. (Previously presented) A compact head up display for a firearm, comprising:
 - (a) a base cooperatively engaging the firearm;
 - (b) a diffractive optic mounted to the base;
 - (c) a coherent illuminating beam source for illuminating the diffractive optic;
 - (d) a power source selectively connected to the coherent illuminating beam source;
 - (e) a light valve optically intermediate the diffractive optic and the coherent illuminating beam source; and
 - (f) an image generator connected to the light valve for creating an image on the light valve.
- 2. (Original) The compact head up display of Claim 1, wherein the diffractive optic is a hologram.
- 3. (Original) The compact head up display of Claim 1, wherein the diffractive optic is tilted with respect to the axis of the coherent illuminating beam source.
- 4. (Original) The compact head up display of Claim 1, wherein the diffractive optic is a hologram having a recorded image of an infinitely spaced focal plane.

- 5. (Original) The compact laser sight of Claim 1, wherein the light valve is a liquid crystal diode.
- 6. (Original) The compact head up display of Claim 1, wherein the image appears as a reconstructed image at a plane located from adjacent the user to infinity at infinity.
- 7. (Previously presented) The compact head up display of Claim 1, wherein the coherent illuminating beam source is a laser.
- 8. (Original) The compact head up display of Claim 1, further comprising a range finder cooperatively connected to one of the image generator and the light valve for incorporating range information into the image.
- 9. (Previously presented) The compact head up display of Claim 1, further comprising an optical surface illuminated by the coherent illuminating beam source to form a targeting beam of coherent light.
- 10. (Previously presented) A compact head up display for a handheld firearm, comprising:
 - (a) a hologram mounted relative to the handheld firearm;
 - (b) a laser for illuminating the hologram;
 - (c) an image generator; and
 - (d) a light valve optically intermediate the hologram and the laser and operably connected to the image generator.

- 11. (Cancelled).
- 12. (Previously presented) The compact head up display of Claim 10, wherein the hologram is moveable connected to the firearm between a closed position and an open position.
- 13. (Previously presented) The compact head up display of Claim 10, further comprising one of a passive and active night vision system operably connected to the light valve.
- 14. (Original) The compact head up display of Claim 10, further comprising a range finder operably coupled to the light valve.
 - 15. (Cancelled).
- 16. (Previously presented) The compact head up display of Claim 1, wherein the diffractive optic is transmissive.
- 17. (Previously presented) The compact head up display of Claim 1, wherein the diffractive optic is reflective.
- 18. (Previously presented) The compact head up display of Claim 10, wherein the hologram is transmissive.
- 19. (Previously presented) The compact head up display of Claim 10, wherein the hologram is reflective.